Patent claims

- 1. Fungicidal compositions, characterized in that they comprise an active compound combination consisting of
 - 2'-cyano-3,4-dichloroisothiazole-5-carboxanilide of the formula

and

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(1) N-[1-(4-chlorophenyl)ethyl]-2,2-dichloro-1-ethyl-3-methylcyclopropanecarboxamide of the formula

$$CI \longrightarrow CH \longrightarrow NH \longrightarrow CH \longrightarrow CH_3$$

$$CI \longrightarrow CI$$

$$CI \longrightarrow CH \longrightarrow H$$

$$CH_3 \longrightarrow CH_3$$

$$CH_3 \longrightarrow CH_3$$

$$CH_3 \longrightarrow CH_3$$

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and/or

(2) a strobilurin derivative of the formula

(azoxystrobin)

or .

(orysastrobin)

or

(metominostrobin)

or

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and/or

(3) a triazole derivative of the formula

$$\begin{array}{c} \text{OH} \\ \text{O-CH-CH-C(CH_3)_3} \\ \\ \text{N-N} \end{array} \tag{IV-a}$$

(triadimenol)

5 or

$$CI \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow C(CH_{3})_{3}$$

$$CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow C(CH_{3})_{3}$$

$$CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2} \longrightarrow CH_{2}$$

$$CH_{2} \longrightarrow CH_{2} \longrightarrow$$

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$$CI \qquad OH \qquad CI$$

$$CH_2 \qquad CH_2 \qquad CI$$

$$CH_2 \qquad N \qquad S$$

$$NH \qquad (IV-c)$$

(prothioconazole)

10 and/or

(4) a phenylurea derivative of the formula

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$$CI \longrightarrow CH_2 \longrightarrow N \longrightarrow C \longrightarrow NH \longrightarrow NH$$

(pencycuron)

and/or

(5) the chlorophthalide of the formula

CI CI (VI)

(V)

(phthalide)

and/or

(6) the hydrazine derivative of the formula

$$C=N$$
 $N+$
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3

(ferimzone)

and/or

(7) the benzothiazole derivative of the formula

(tricyclazole)

and/or

(8) the cyanocarboxamide of the formula

$$CI \longrightarrow \begin{array}{c} CI \\ CH-NH-C \\ CH_3 \\ CH_3 \\ CH_3 \\ CH \end{array} , \qquad (IX)$$

(diclocymet)

and/or

10 (9) a carboxamide derivative of the formula

(thifluzamide)

or

$$H_3C$$
 O
 CH_3
 $CH_$

(furametpyr)

and/or

(10) the quinolone derivative of the formula

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(XI)

(pyroquilon)

and/or

(11) the dithiolane derivative of the formula

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(isoprothiolane)

and/or

(12) the phosphorus compound of the formula

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$$\begin{pmatrix}
CH_3-CH_2-O-P-O \\
H
\end{pmatrix}$$
(fosethyl-Al)

and/or

(13) the iminoglycine derivative of the formula

in addition to extenders and/or surfactants.

2. Compositions according to Claim 1, characterized in that in the active compound-combinations the weight ratio of active compound of the formula (I) to

- active compound of group (1) is between 1:0.1 and 1:20,

- active compound of group (2) is between 1:0.1 and 1:20,

- active compound of group (3) is between 1:0.01 and 1:50,

- active compound of group (4) is between 1:0.1 and 1:100,

- active compound of group (5) is between 1:0.1 and 1:100,

- active compound of group (6) is between 1:0.1 and 1:100,

- active compound of group (7) is between 1:0.1 and 1:100,

- active compound of group (8) is between 1:0.1 and 1:100,

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- active compound of group (9) is between 1:0.1 and 1:100,
- active compound of group (10) is between 1:0.1 and 1:100,
- active compound of group (11) is between 1:0.1 and 1:100,
- active compound of group (12) is between 1:0.1 and 1:100 and
- active compound of group (13) is between 1:0.1 and 1:100.
- 3. Method for controlling fungi, characterized in that active compound combinations according to Claim 1 are applied to the fungi and/or their habitat.
- 4. Use of active compound combinations according to Claim 1 for controlling fungi.
- 5. Process for preparing fungicidal compositions, characterized in that active compound combinations according to Claim 1 are mixed with extenders and/or surfactants.

Fungicidally active compound combinations

Abstract

The novel active compound combinations of 2'-cyano-3,4-dichloroisothiazole-5-carboxanilide of the formula

$$CI \longrightarrow CI$$

$$C \longrightarrow CI$$

$$C \longrightarrow NC$$

$$O \longrightarrow NC$$

$$(I)$$

and the active compounds of Groups (1) to (13) listed in the description have very good fungicidal properties.